

WHAT IS CLAIMED IS:

1. A saturable nonwoven material comprising a mixture dispersed therein of at least one fluoropolymer floc; and at least one wettable structural organic floc.
2. The saturable nonwoven material according to claim 1, further comprising a binder wherein the binder is up to about 30% by weight of the saturable nonwoven material.
3. The saturable nonwoven material of claim 1, wherein the fluoropolymer floc is at least about 30% by weight of the mixture.
4. The saturable nonwoven material of claim 1, wherein the fluoropolymer floc comprises at least one perfluorinated polymer.
5. The saturable nonwoven material of claim 2, wherein the binder comprises at least one fibrous material.
6. The saturable nonwoven material of claim 2, wherein the binder comprises at least one aramid fibrid.
7. The saturable nonwoven material of claim 2, wherein the binder comprises a mixture of at least one aramid fibrid and a resin.
8. A prepreg comprising the saturable nonwoven material of claim 1 and a matrix resin.
9. A self-lubricating bearing comprising the saturable nonwoven material of claim 1.

09450-0744
F0430-0304

10. A saturable nonwoven material comprising a mixture dispersed therein of about 40% to about 60% by weight of a fluoropolymer floc; and about 10% to about 40% by weight of a wettable structural organic floc.

11. The saturable nonwoven material according to claim 10, further comprising about 10% to about 20% by weight of a binder.

12. A saturable nonwoven material comprising a mixture dispersed therein of about 40% to about 60% by weight of a fluoropolymer floc; and about 60% to about 40% by weight of a meta-aramid floc.

13. A saturable nonwoven material comprising a mixture dispersed therein of about 45% by weight of a fluoropolymer floc; about 36% by weight of a meta-aramid floc; about 10% by weight of a meta-aramid fibrid; and about 9% of a resin.

14. A process for making the saturable nonwoven material of claim 1 comprising the steps of:

a.) delivering an aqueous dispersion of a mixture comprising wettable structural organic floc, fluoropolymer floc and optionally a binder onto a screen of a papermaking device;

b.) withdrawing water from the aqueous dispersion to leave a wet paper felt; and

c.) drying the wet paper felt.

15. The process according to claim 14, further comprising calendering the dried nonwoven material for further densification of the material.